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(45) **Date of Patent:** Oct. 3, 2017

(54) **HINGED GLASS HANDRAIL SILL**
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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(22) Filed: **Jun. 23, 2016**

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Related U.S. Application Data

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(51) **Int. Cl.**
E04B 1/00 (2006.01)
E04B 5/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC **E04F 11/1853** (2013.01); **E04F 11/1812** (2013.01); **E04F 2011/1823** (2013.01)

(58) **Field of Classification Search**
CPC ... E04H 17/16; E04B 2002/749; E04B 2/825; E04F 11/1812; E04F 11/1817; E04F 11/1851; E04F 11/1823; E04F 11/1853; E04F 2011/1823; E06B 3/5454; F16B 2/12; Y10T 403/76
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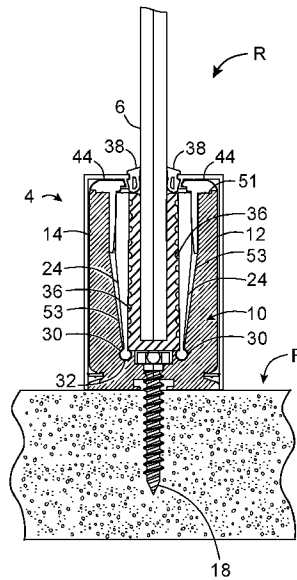
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(57) **ABSTRACT**
The invention is a double-hinged sill for adjustable securing the panels of a handrail system to a floor, the sill has U-shaped channel. A pair of hinged plates is pivotally mounted within the channel. A cylindrical hinge member is provided at the bottom end of each of the hinge plates and extends the length of the hinge plate. A groove for receiving the cylindrical hinge member is provided at the bottom of the sill. The pair of hinge plates is aligned within the sill as mirror images. A series of adjustment and locking screws are provided along the length of the sill and extend there through from either the top of the sill or the sides of the sill and a readapted to selectively impinge against the pair of hinge plates to movably adjust the plates inwardly against a glass panel or outwardly away from a glass panel to vertically align the same and lock it into place.

15 Claims, 18 Drawing Sheets



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| (58) | Field of Classification Search
USPC 52/126.3–126.5, 241, 204.597, 204.64,
52/800.14, 204.65, 284; 256/24–26,
256/65.01, 67, 69

See application file for complete search history. | 2012/0299233 A1 11/2012 Header
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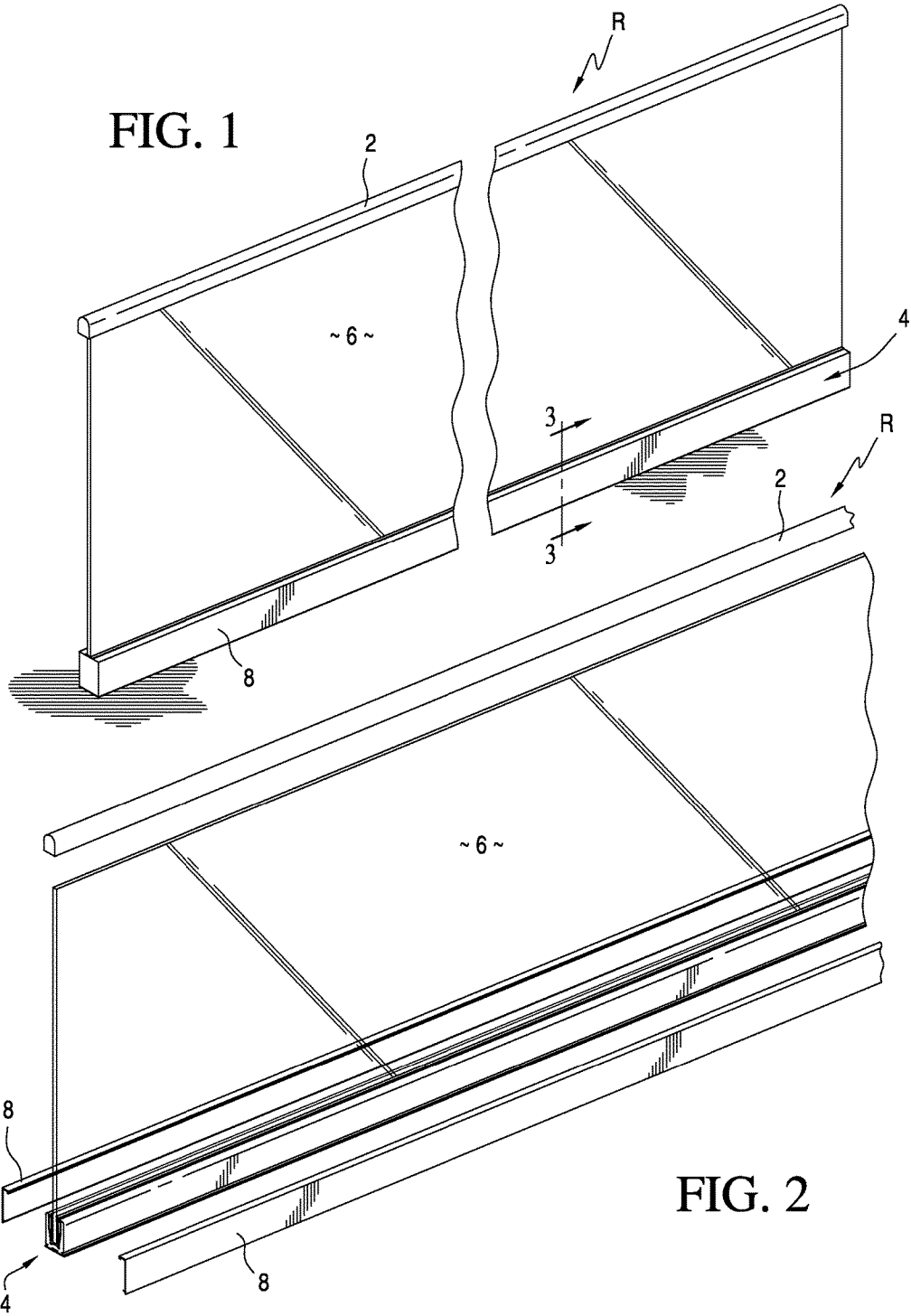


FIG. 3

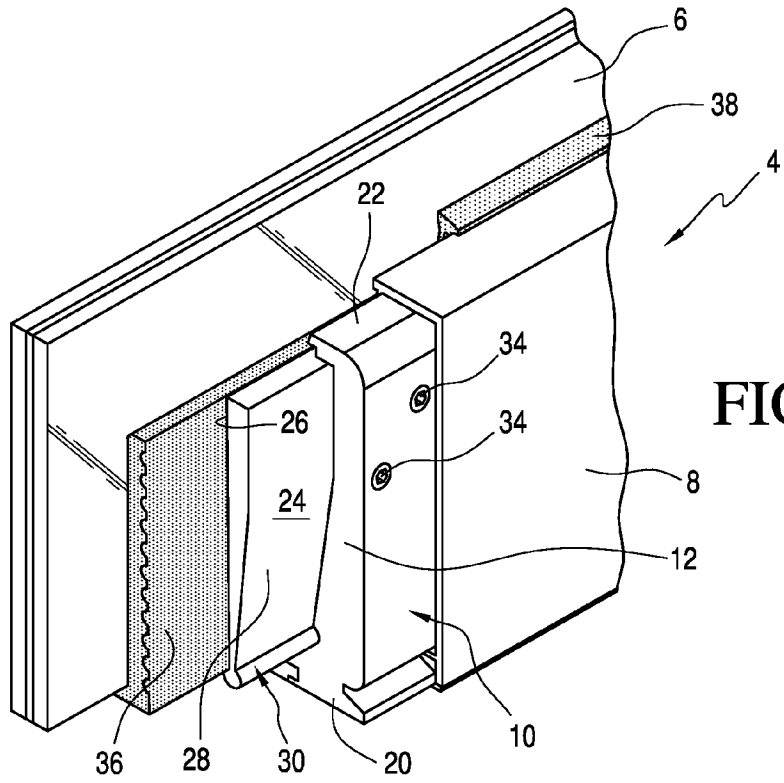
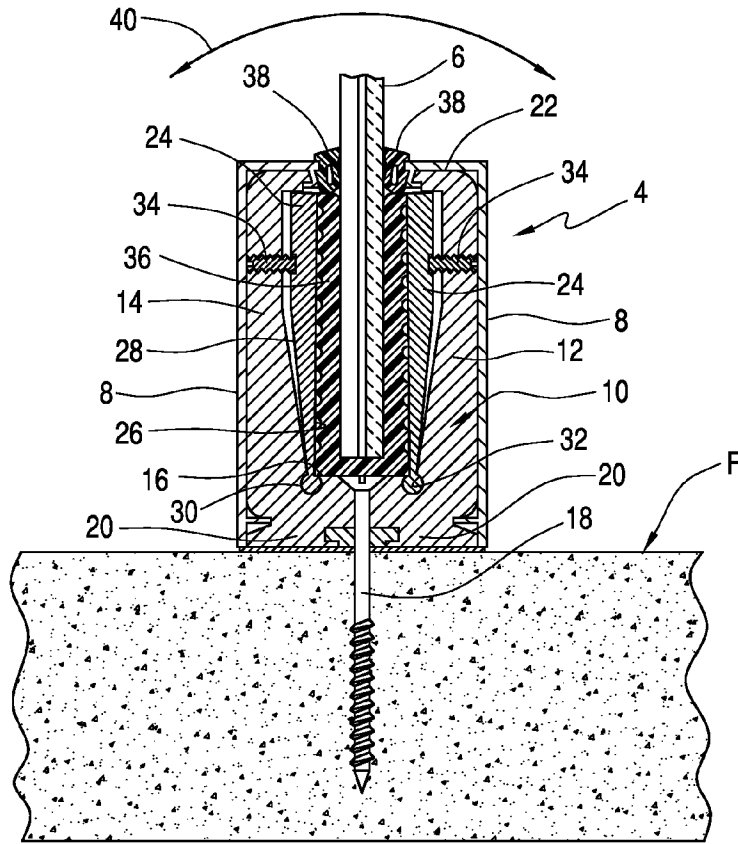


FIG. 4

FIG. 5

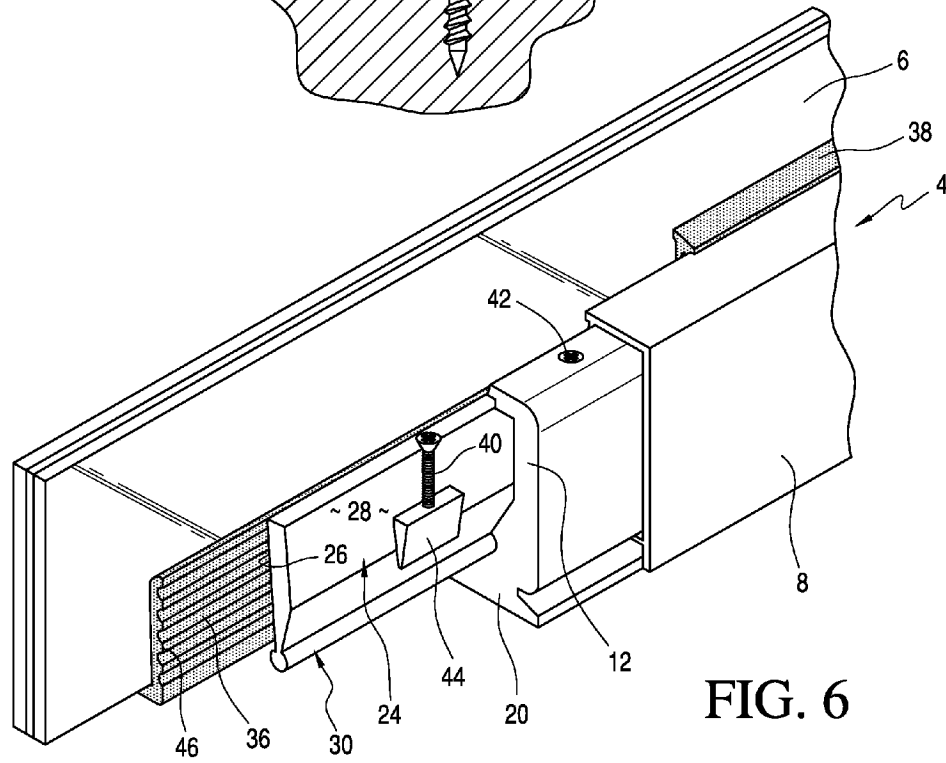
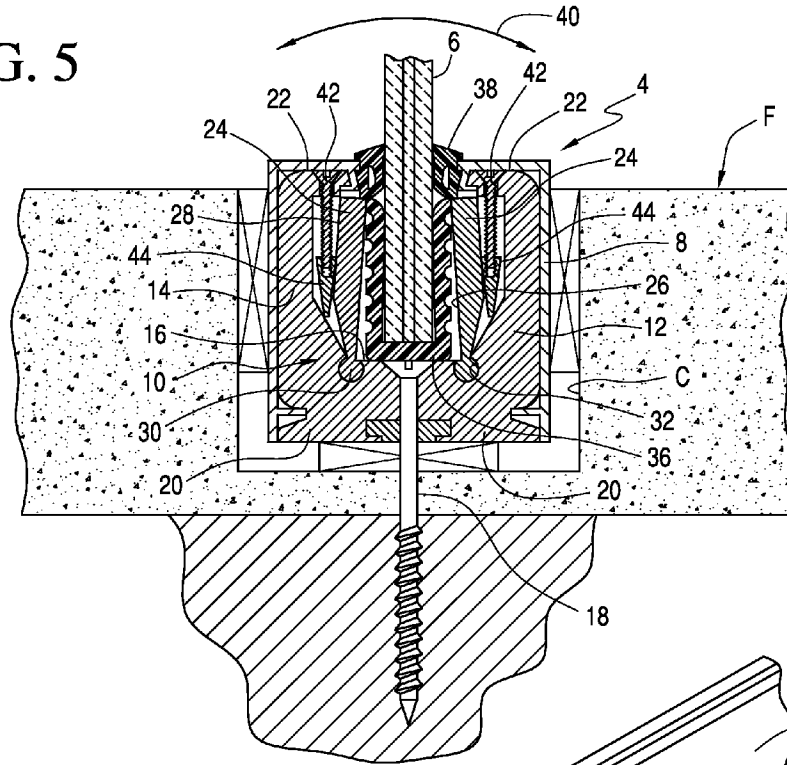


FIG. 6

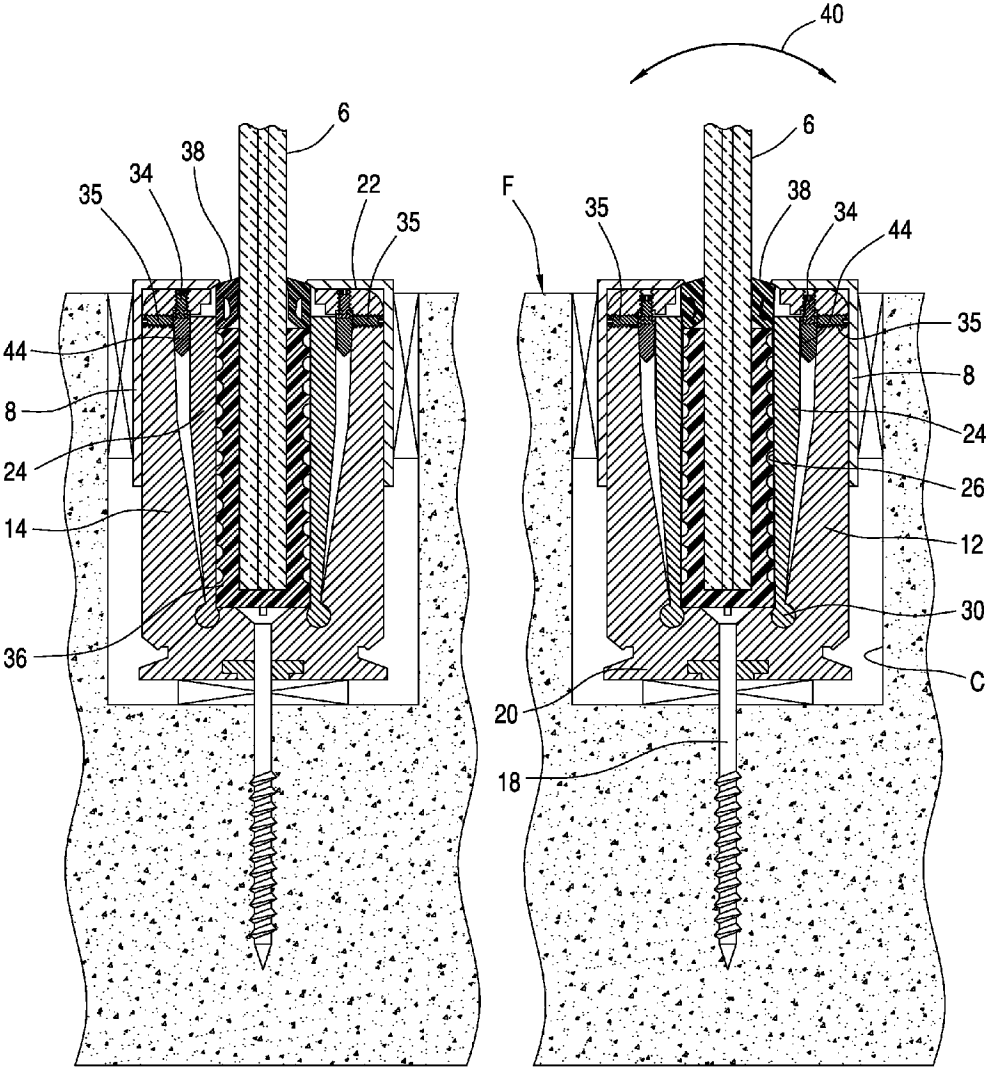


FIG. 7A

FIG. 7B

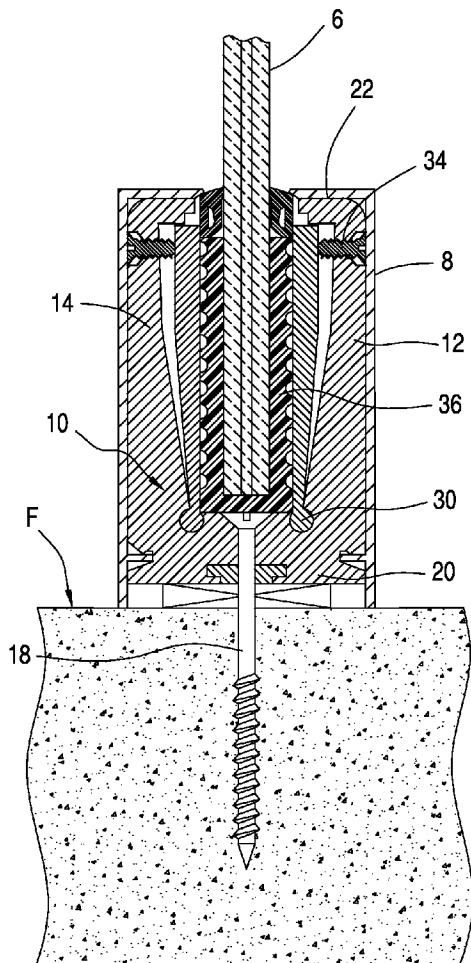


FIG. 8A

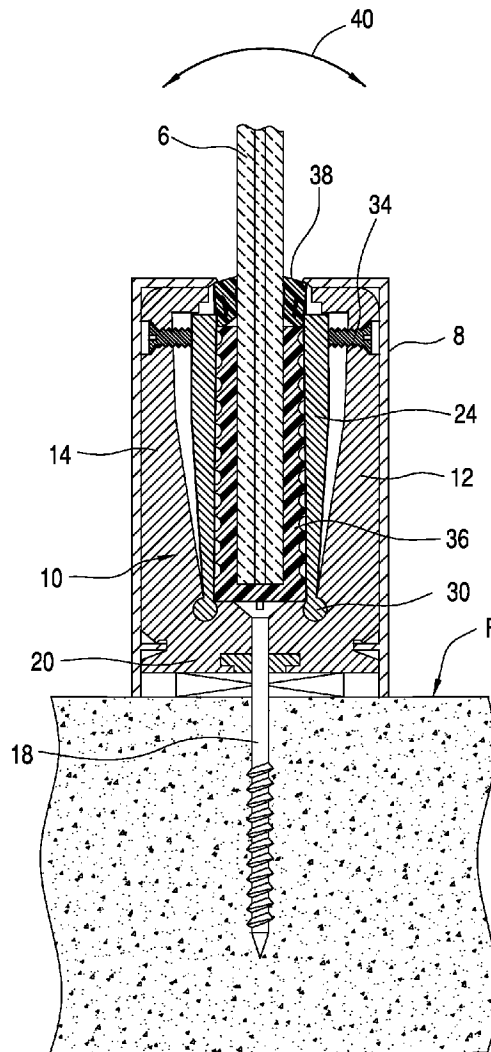


FIG. 8B

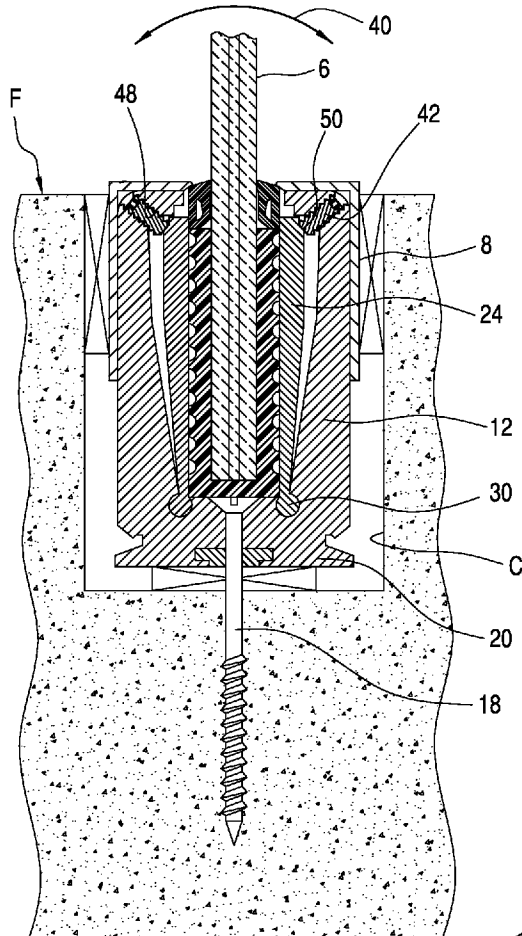


FIG. 9

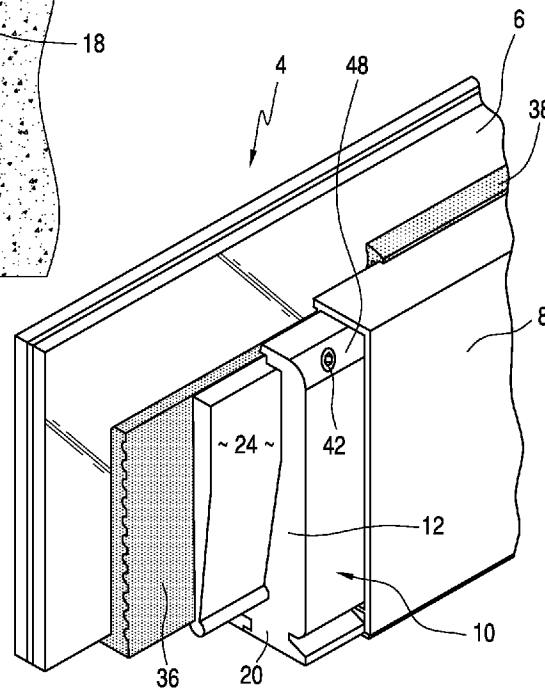


FIG. 10

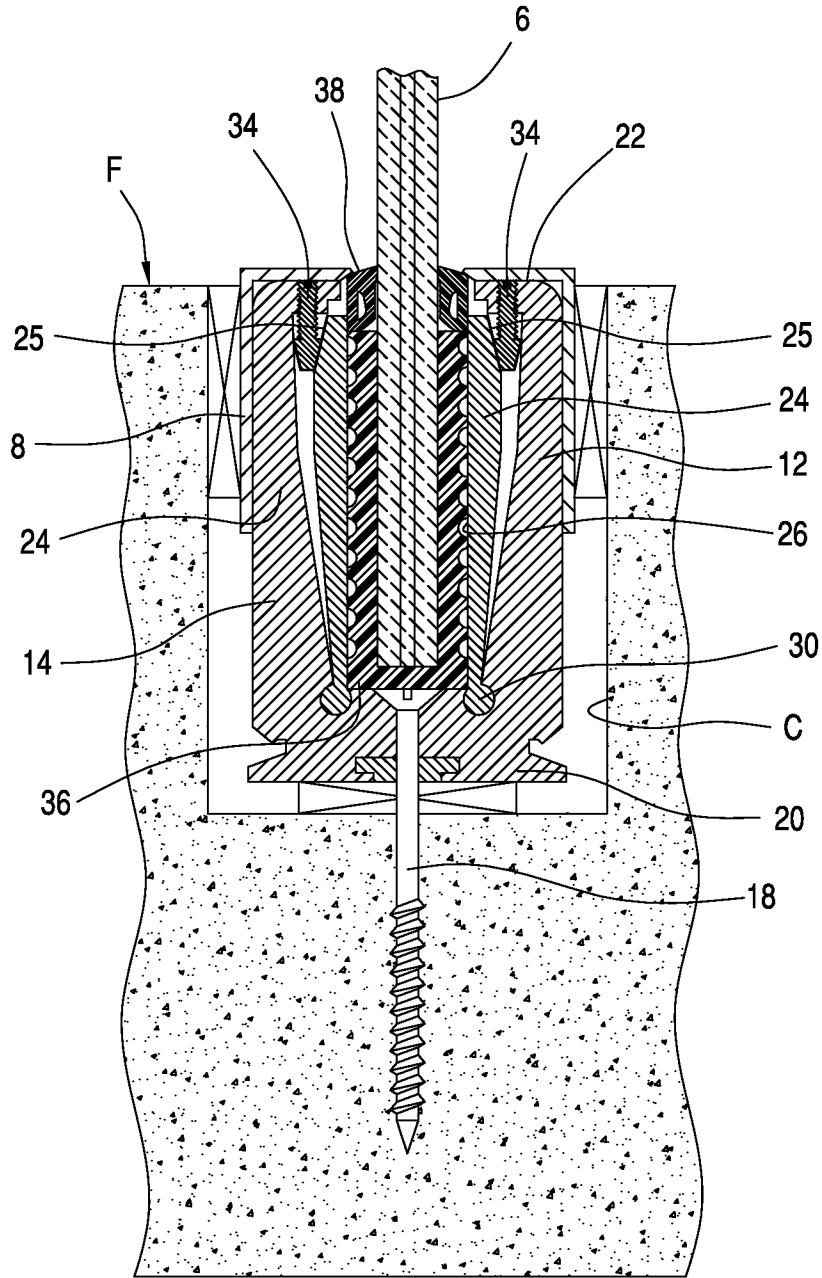


FIG. 11

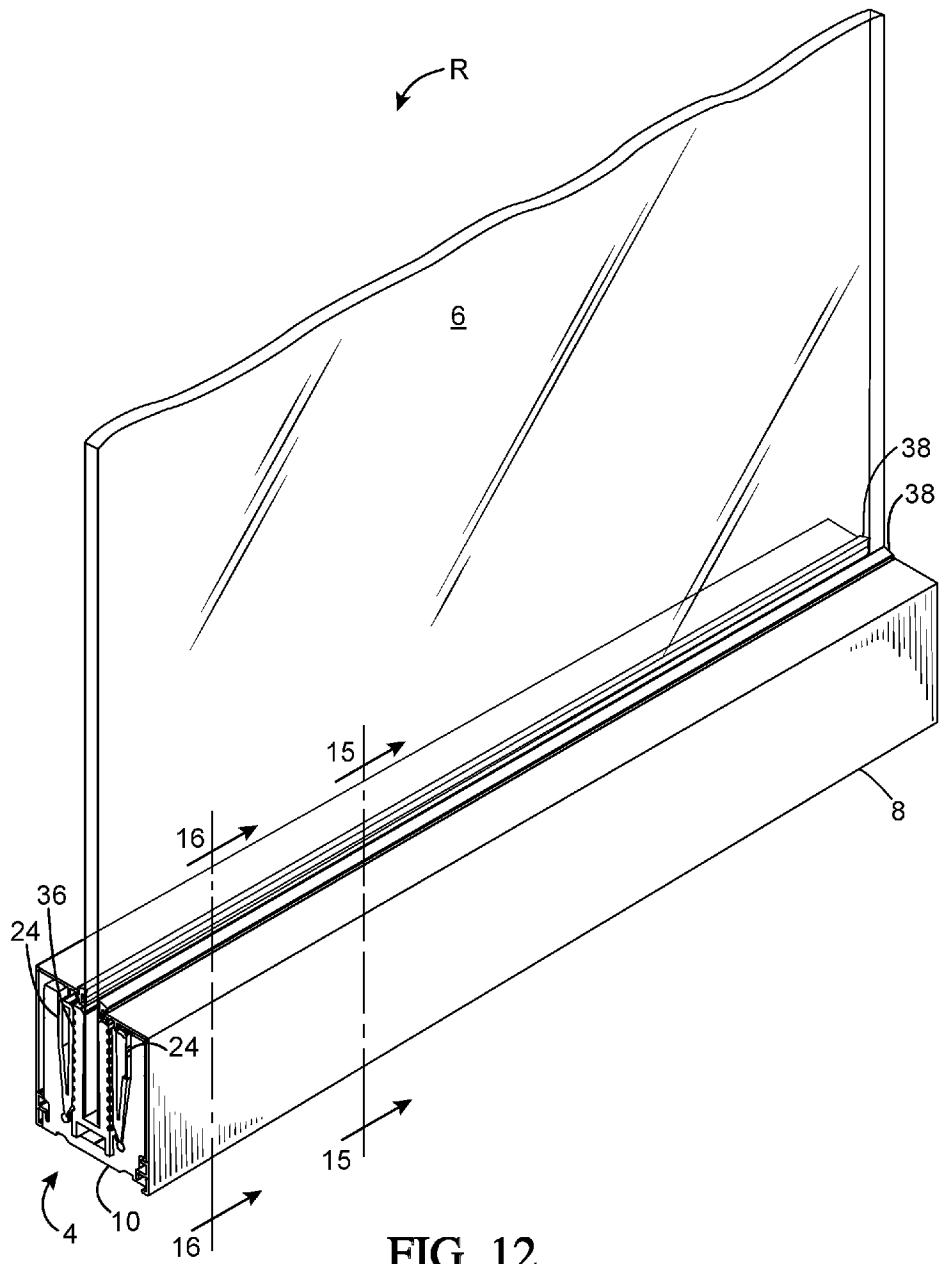


FIG. 12

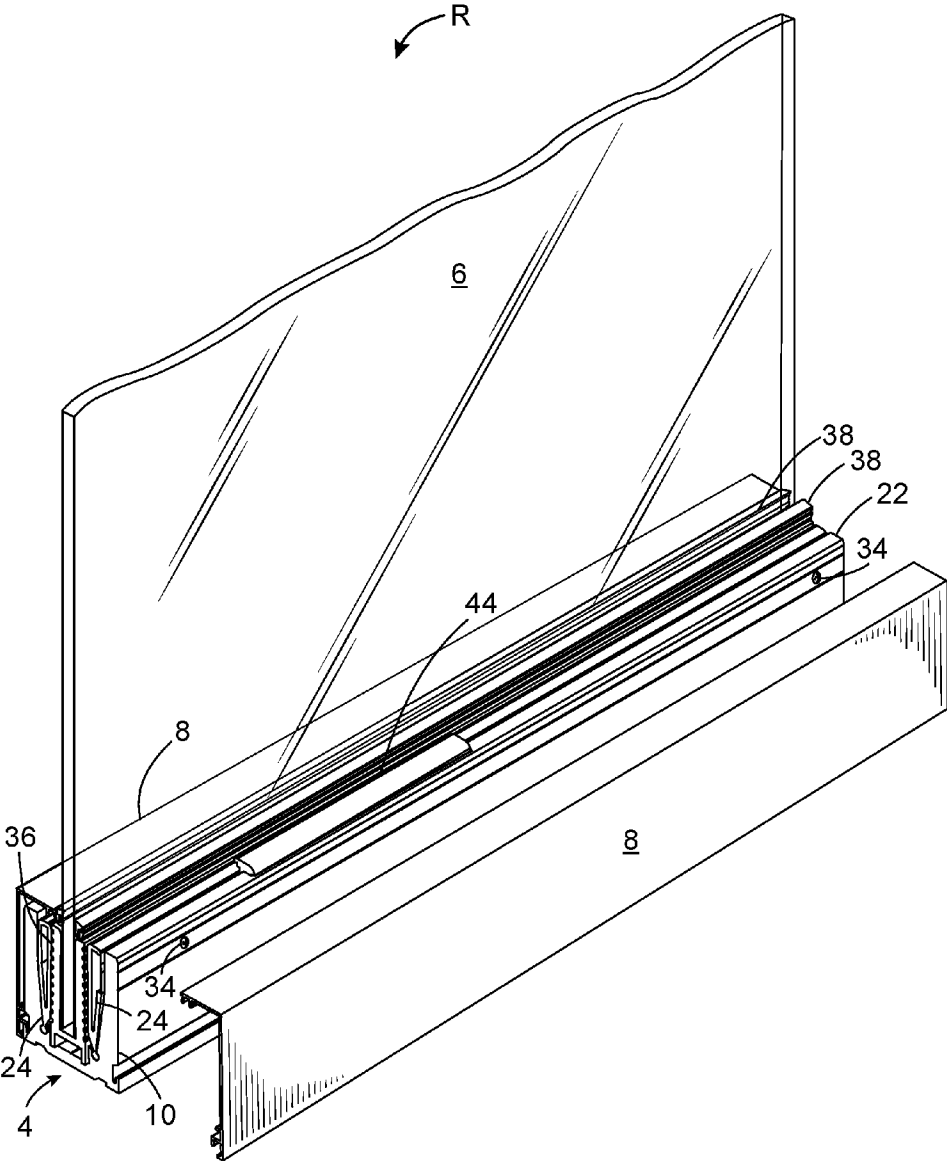


FIG. 13

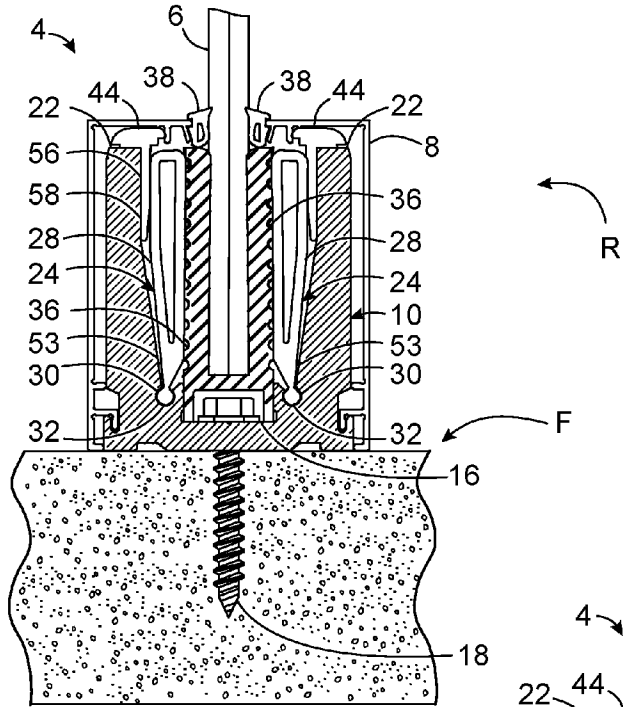


FIG. 15

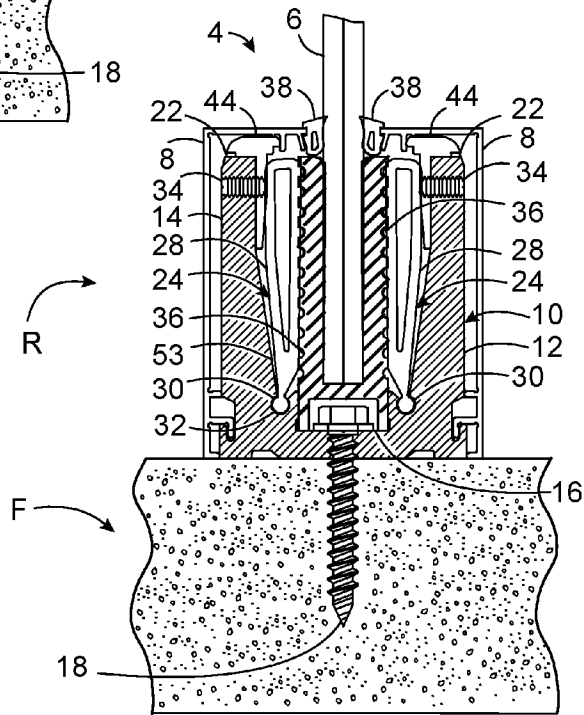


FIG. 16

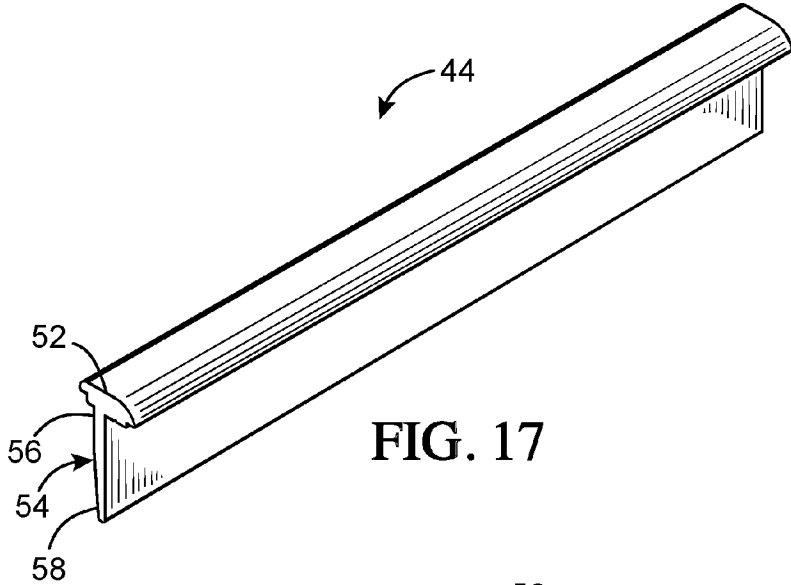


FIG. 17

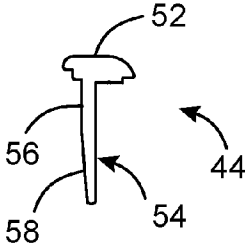


FIG. 18

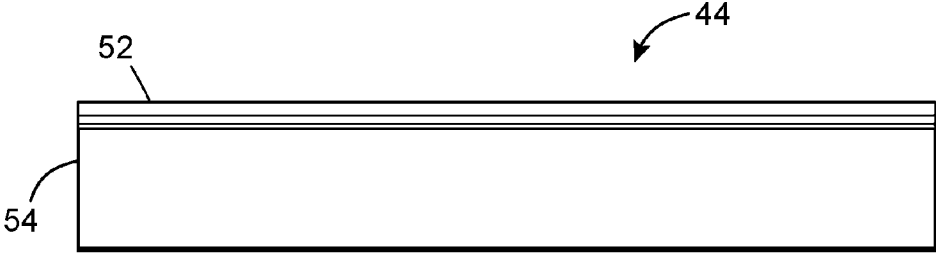


FIG. 19

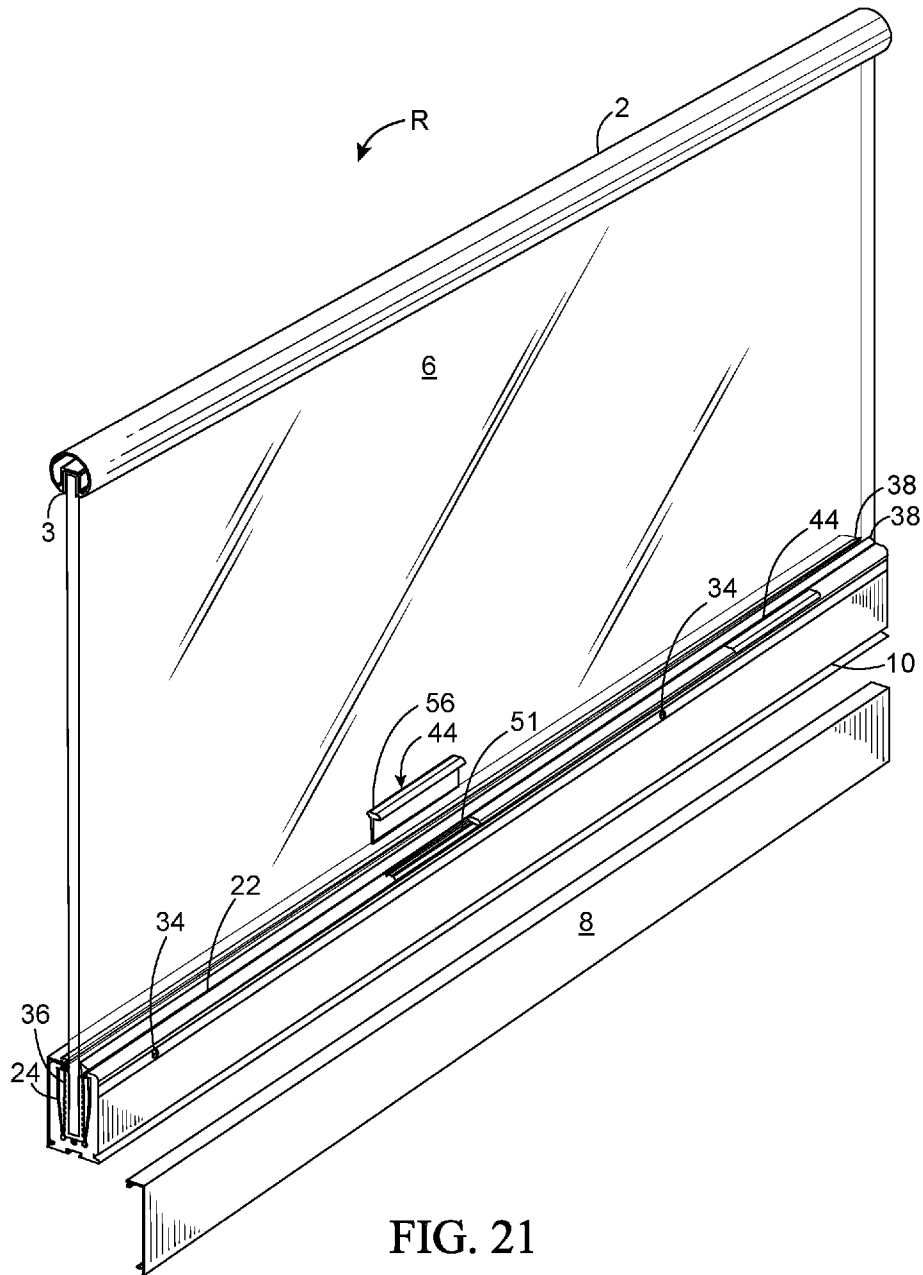


FIG. 21

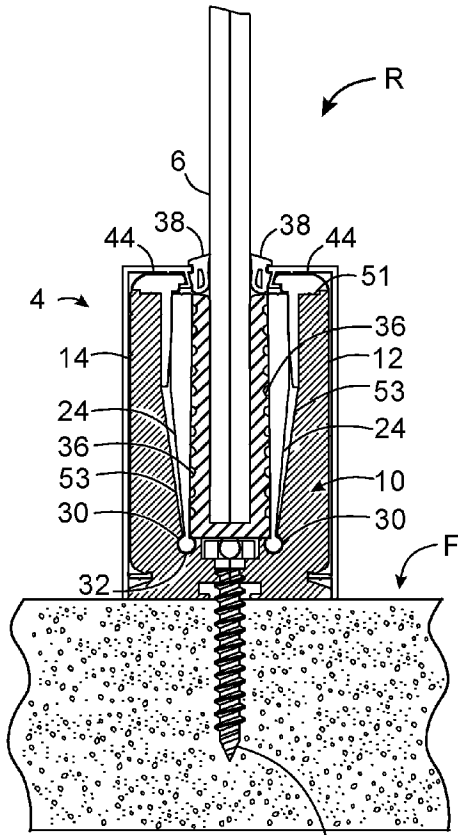


FIG. 22 18

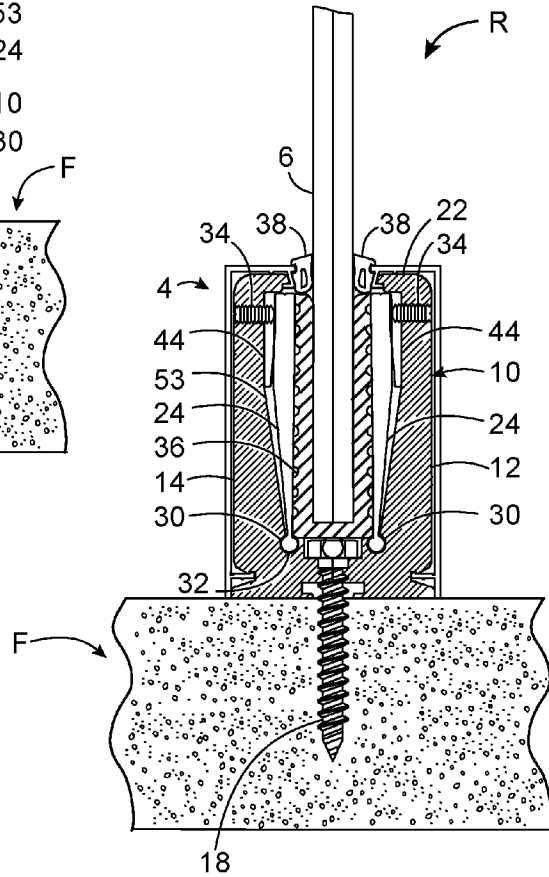


FIG. 23

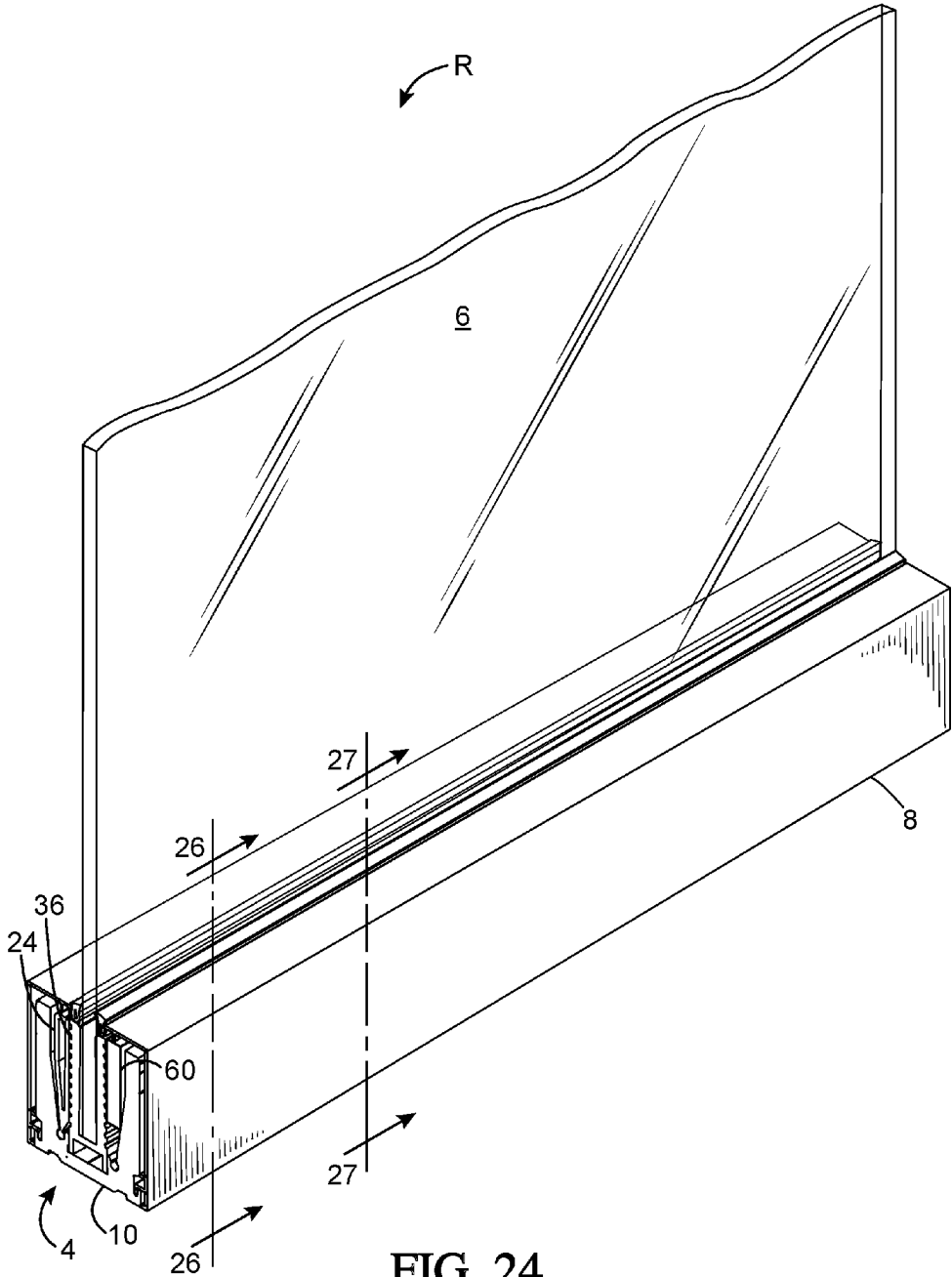


FIG. 24

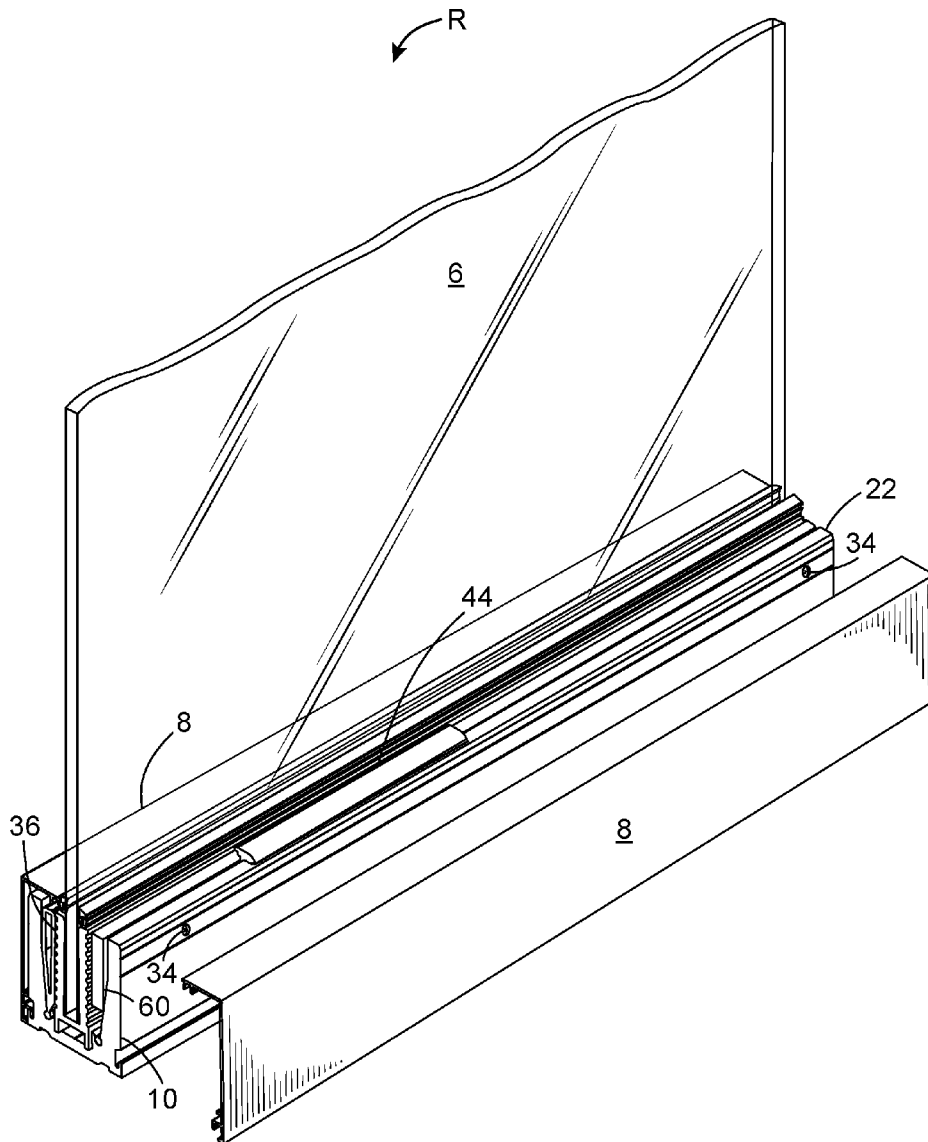


FIG. 25

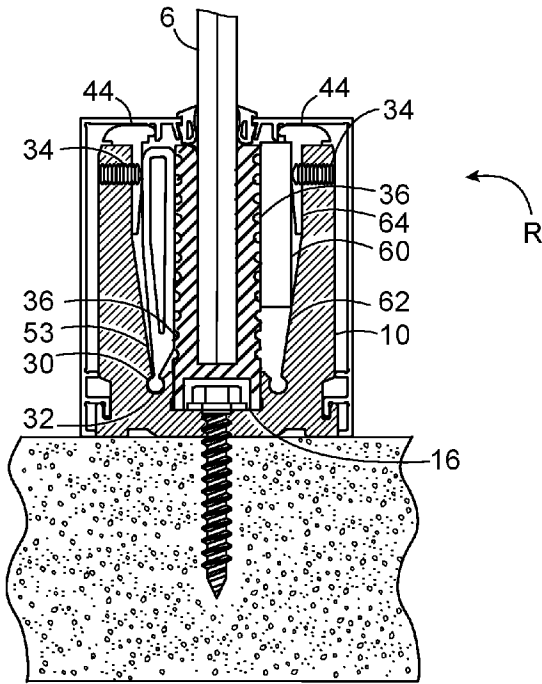


FIG. 26

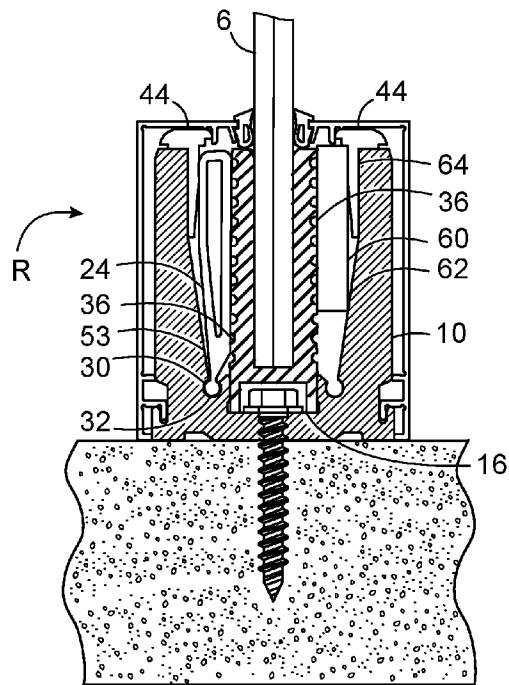


FIG. 27